

Serial No. 09/995,021

Attorney Docket No. 10541-809

I. Amendments to the Claims

1. (Currently amended) A combination of a seating system and a shared sensor for a vehicle, comprising:

a seating system having a seat section and a back section, an adjustable bolster coupled to one of said seat section and said back section, and a control unit coupled to said adjustable bolster, the control unit receiving vehicle data and activating said adjustable bolster; and

a shared sensor coupled to said control unit of said seating system and to a second system in the vehicle, the shared system sensor collecting vehicle data and transmitting vehicle data to the control unit and to the second system.

2. (Previously Presented) The combination of Claim 1, wherein the second system is a vehicle dynamics system of the vehicle.

3. (Previously Presented) The combination of Claim 2, wherein the vehicle dynamics system controls a braking subsystem of the vehicle dynamics system of the vehicle.

4. (Previously Presented) The combination of Claim 1, wherein the second system is a safety system of the vehicle.

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5. (Previously Presented) The combination of Claim 4, wherein the safety system controls an inflatable restraint subsystem of the safety system of the vehicle.

6. (Original) The combination of Claim 1, wherein the vehicle data includes lateral acceleration data.

7. (Original) The combination of Claim 1, wherein the vehicle data includes vehicle speed data and steering wheel angle data.

8. (Original) The combination of Claim 1, wherein the vehicle data includes yaw rate data.

9. (Currently amended) A seating system for a vehicle having a shared sensor, comprising:

a seat section and a back section;

an adjustable bolster coupled to one of said seat section and said back section; and

a shared sensor; and

a control unit coupled to said adjustable bolster and to the shared sensor and adapted to receive vehicle data from the shared sensor and to activate said adjustable bolster, the shared sensor further being coupled to a

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second system, the shared sensor transmitting vehicle data to the second system.

10. (Previously Presented) The seating system of Claim 9, wherein the second system is a vehicle dynamics system of the vehicle.

11. (Previously Presented) The seating system of Claim 10, wherein the vehicle dynamics system controls a braking subsystem of the vehicle dynamics system of the vehicle.

12. (Previously Presented) The seating system of Claim 9, wherein the second system is a safety system of the vehicle.

13. (Previously Presented) The seating system of Claim 12, wherein the safety system is controls an inflatable restraint subsystem of the safety system of the vehicle.

14. (Original) The seating system of Claim 9, wherein the vehicle data includes lateral acceleration data.

15. (Original) The seating system of Claim 9, wherein the vehicle data includes vehicle speed data steering wheel angle data.

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16. (Original) The seating system of Claim 9, wherein the vehicle data includes yaw rate data.